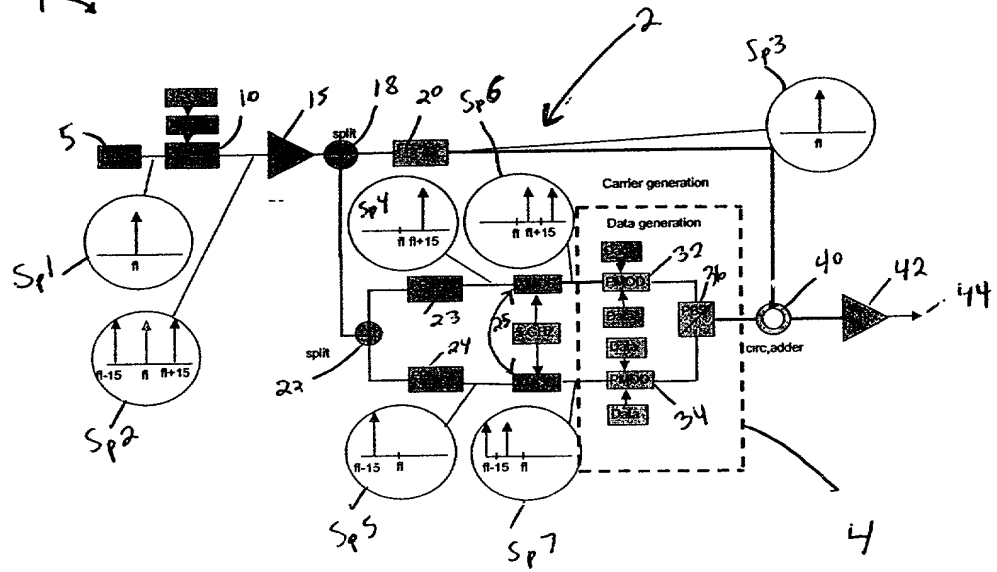




FIG.1

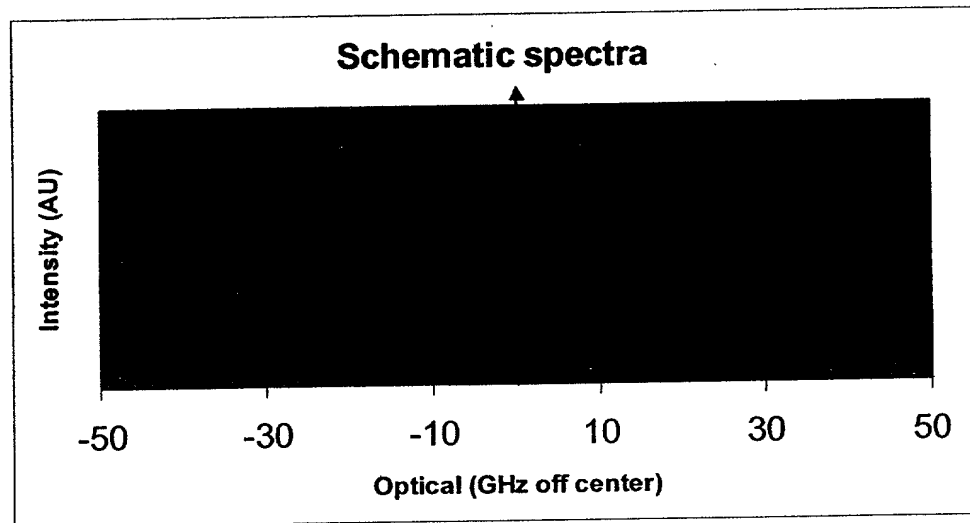


00000578, 00000000

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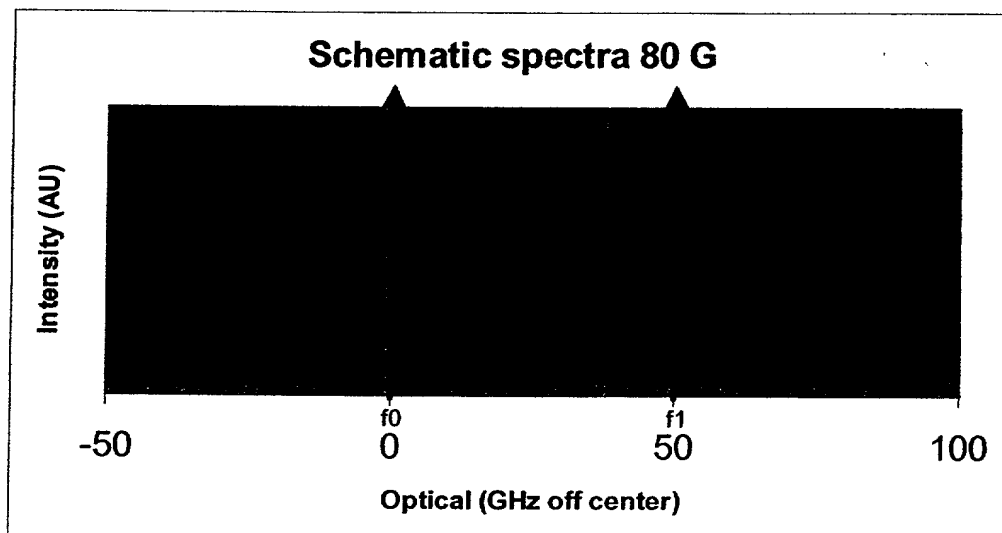
FIG. 2



[illegible]

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FIG. 4



1008579, 104072

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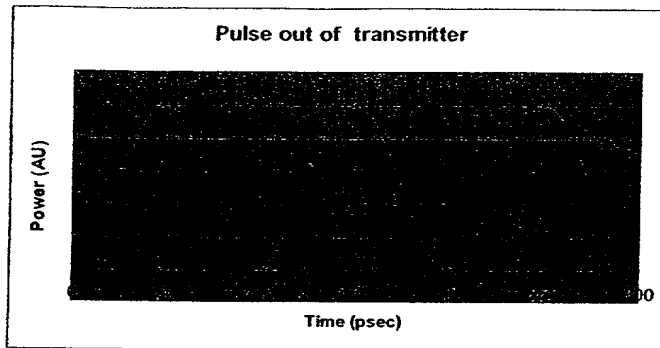


FIG. 5A

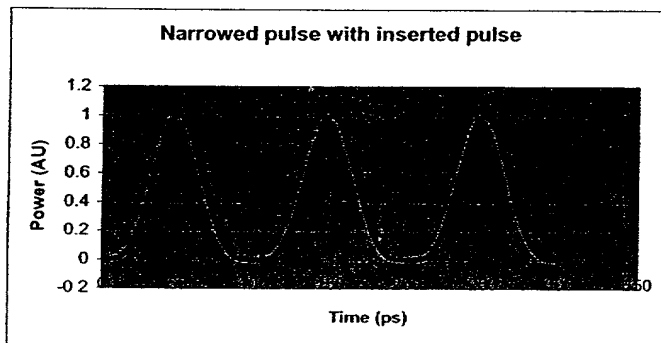


FIG. 5B

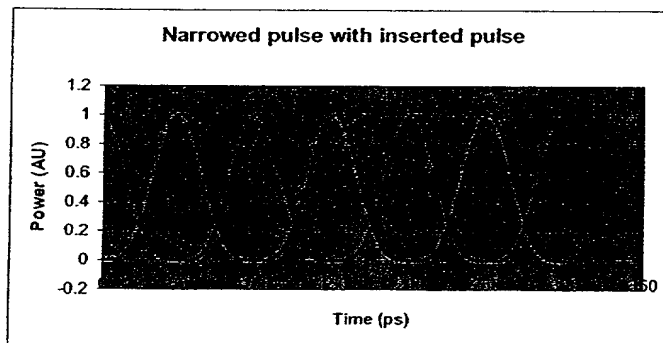
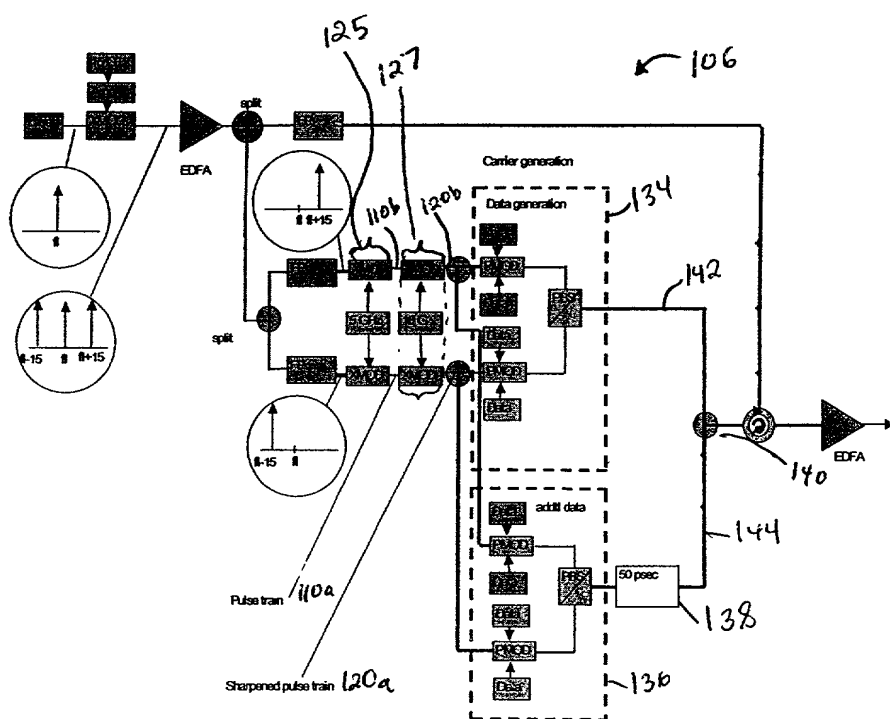


FIG. 5C

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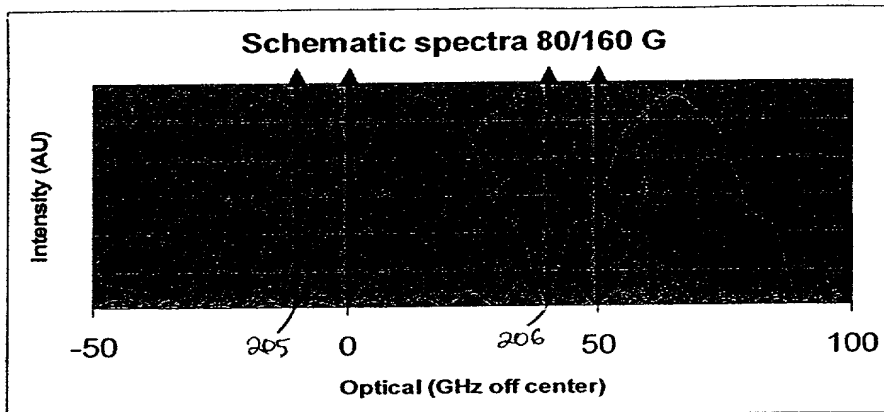
FIG. 6



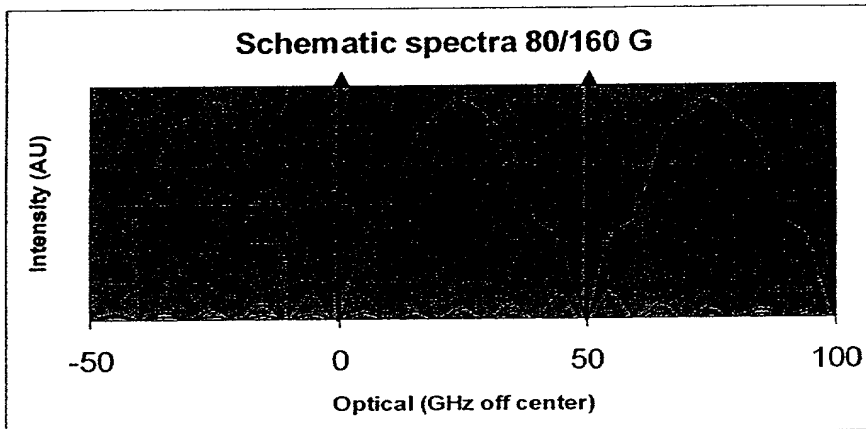
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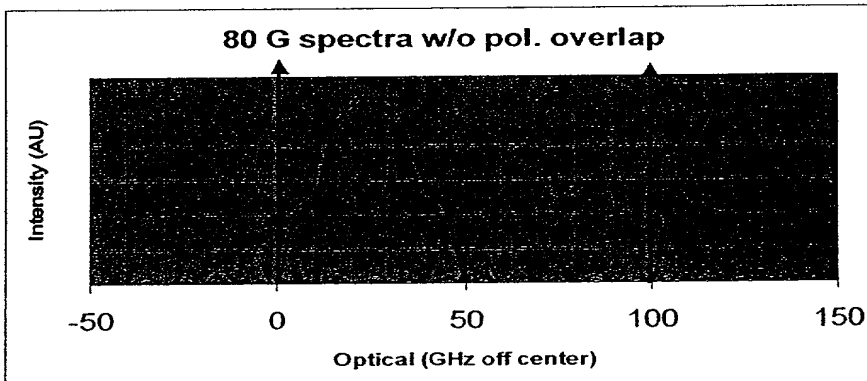
76.7A



76.7B



76.7C



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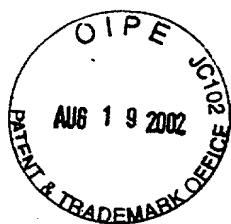
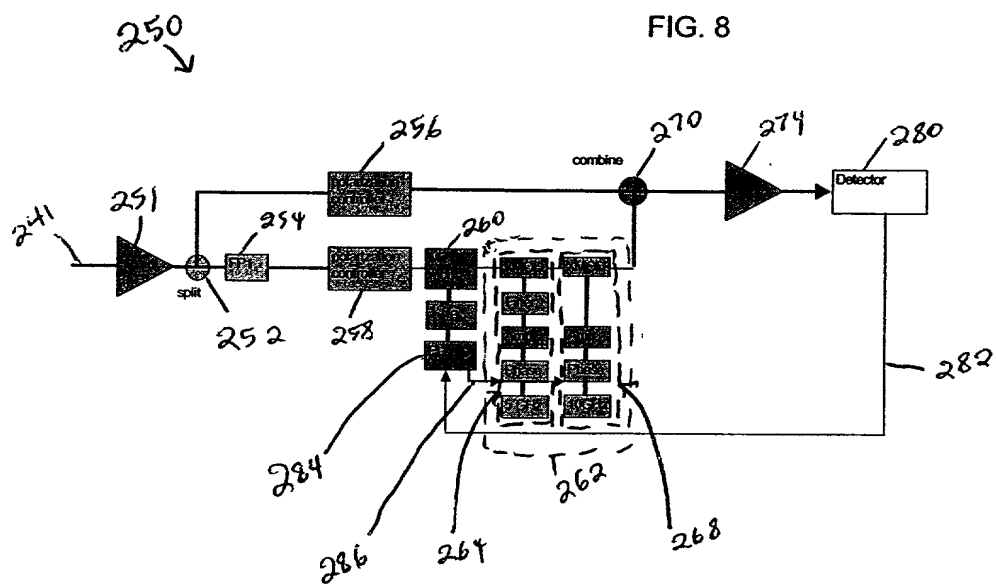


FIG. 8





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FIG. 9

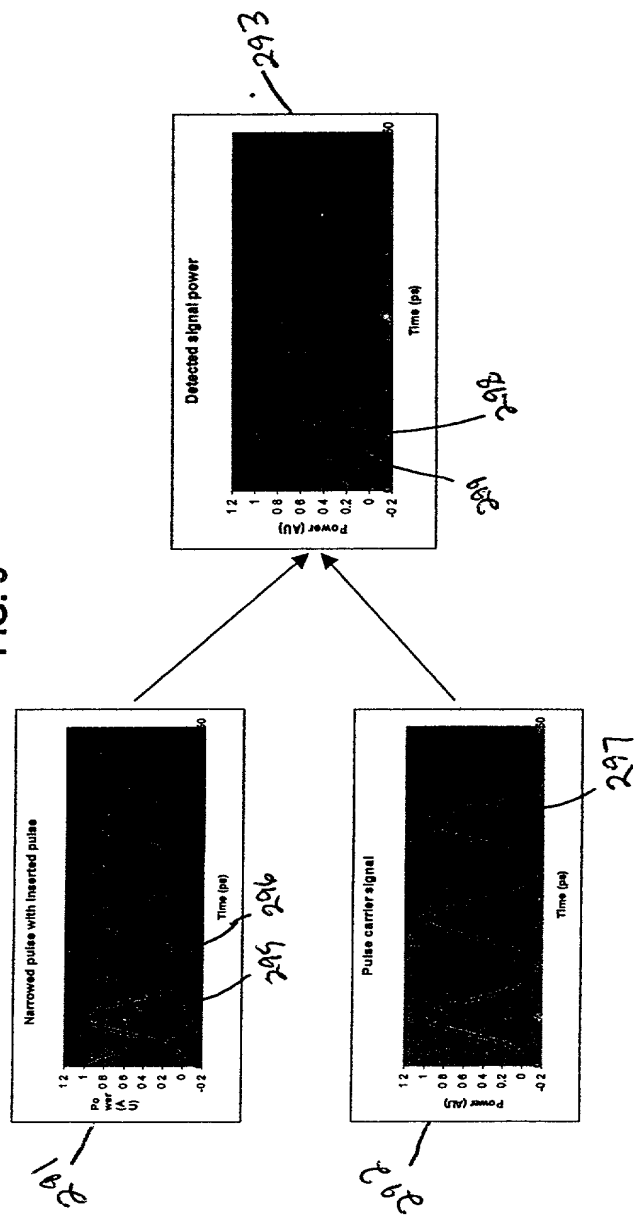




FIG. 10

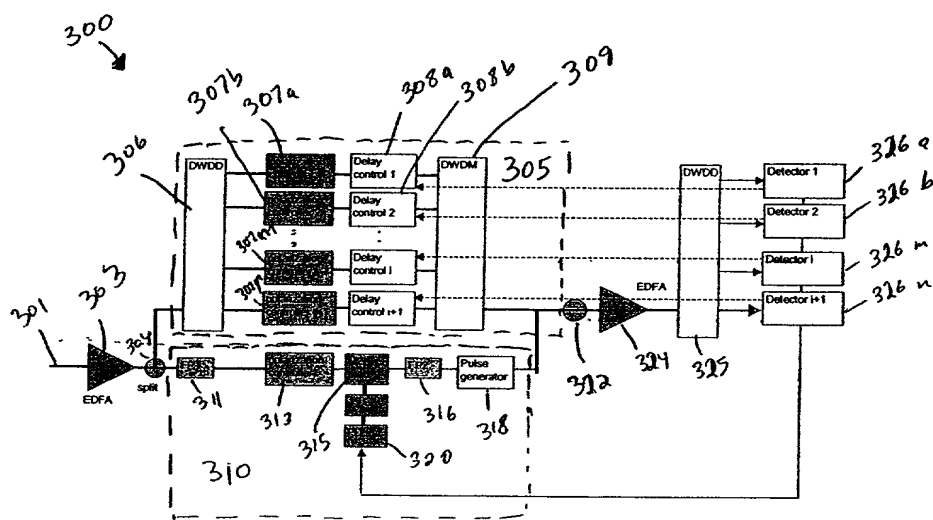




FIG. 11

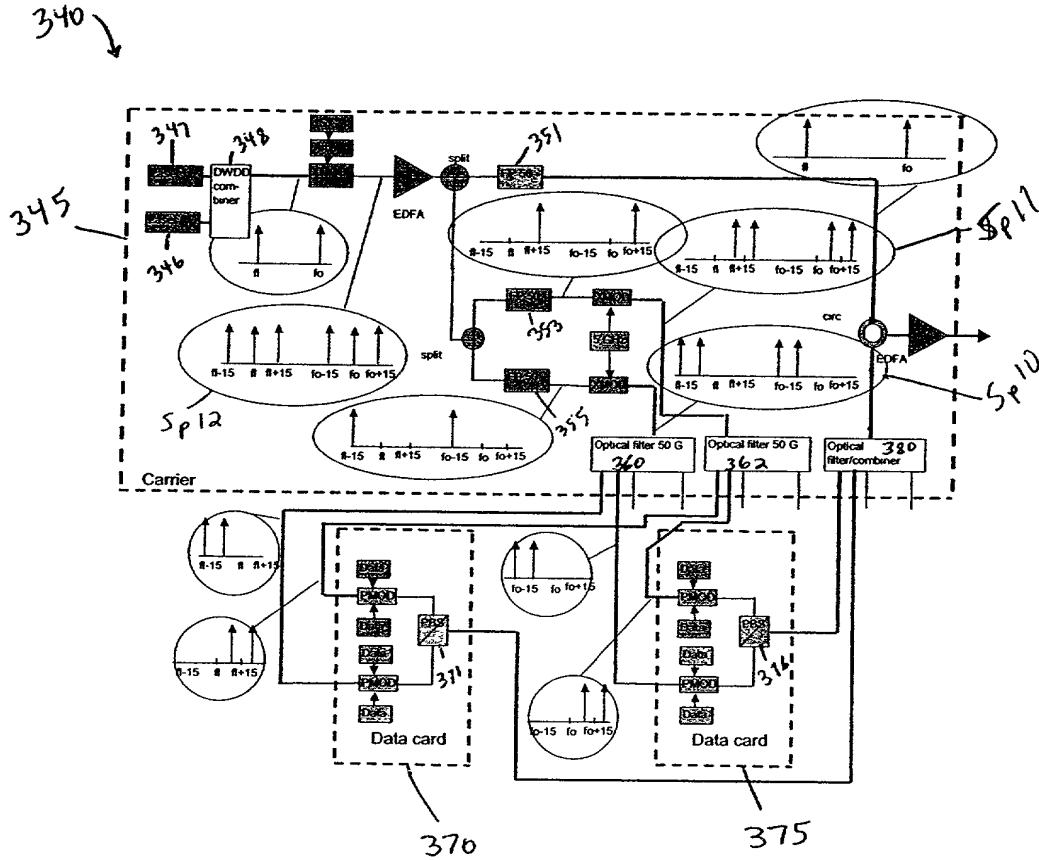
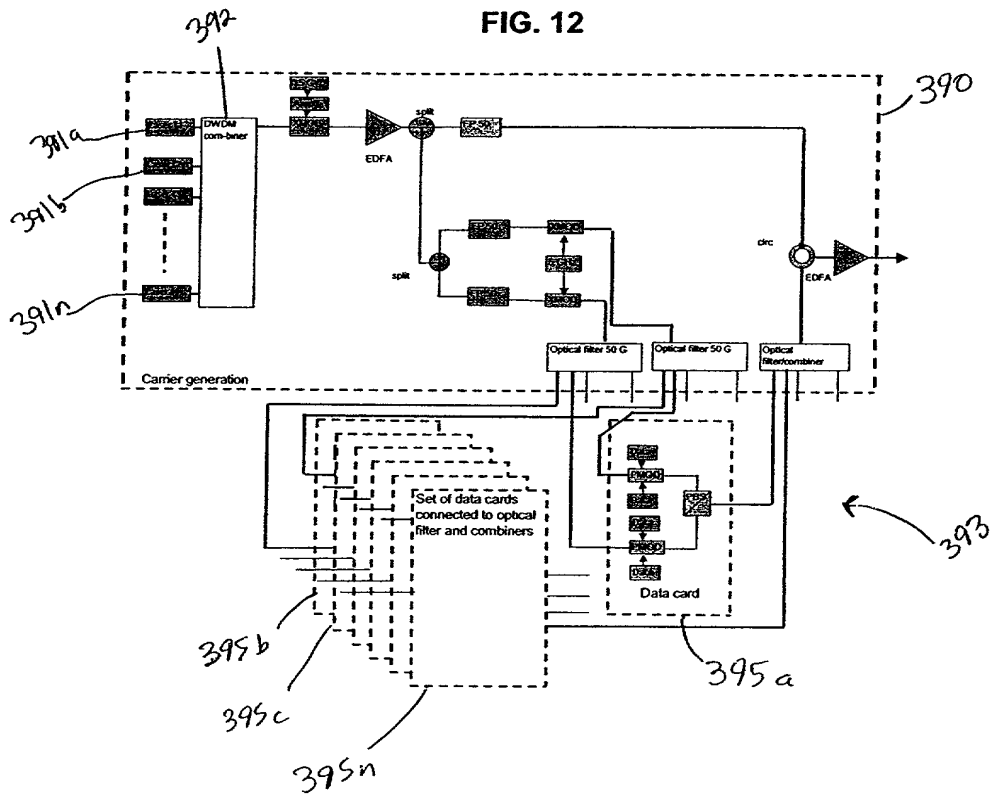




FIG. 12



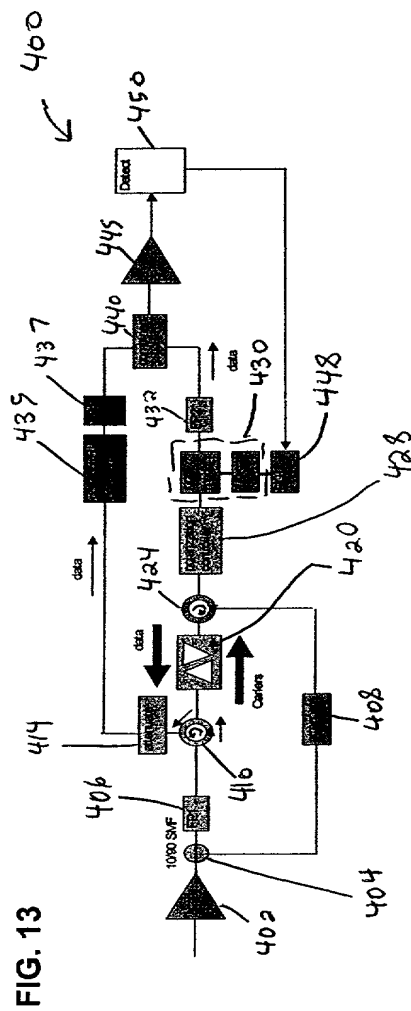


FIG. 13



FIG. 14A

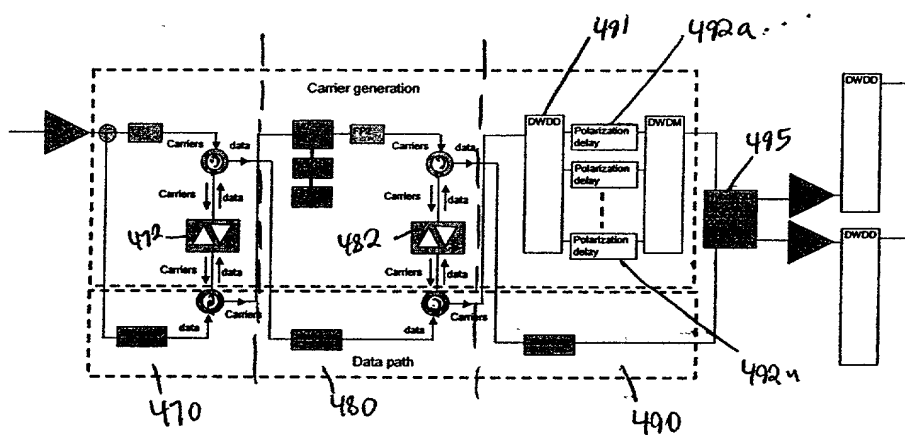
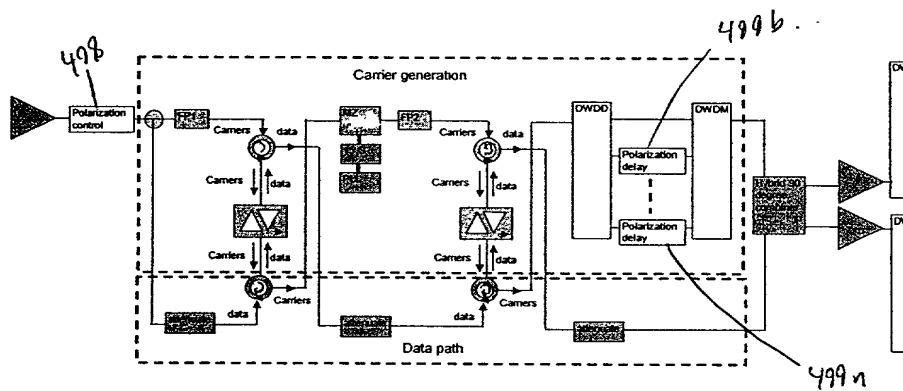


FIG. 14B



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FIG. 15

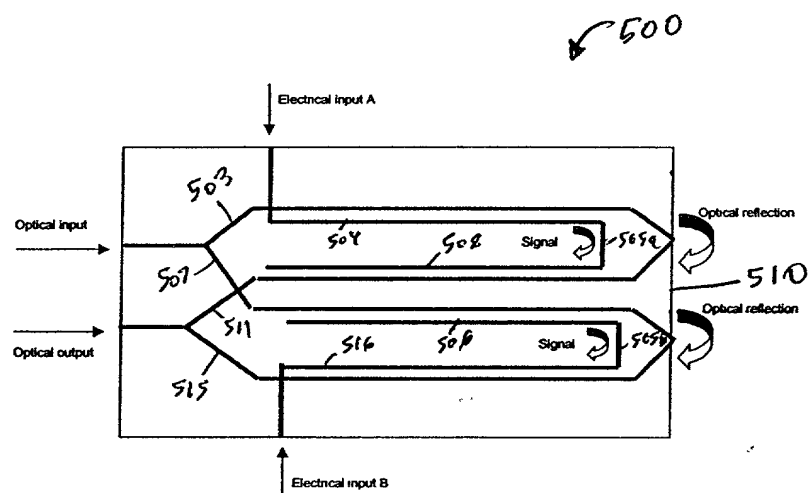
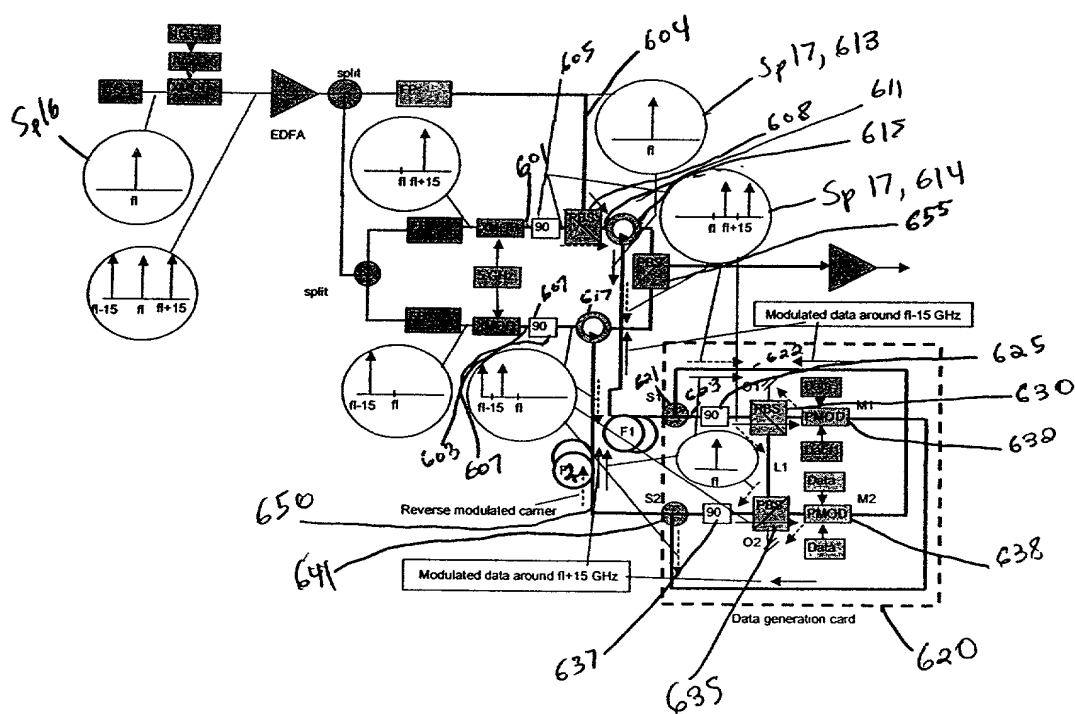


Figure 1 is a block diagram of a dual-band optical communication system. The system includes an EDFA (Erbium-Doped Fiber Amplifier) and a split component. The input signal is split into two paths. One path goes through a circulator (551) and a fiber length (563) to a data generation block (570). The other path goes through a circulator (553) and a fiber length (563) to a data generation block (570). The data generation block (570) contains two modulators (571 and 577) and two demodulators (581 and 583). The modulators are driven by a carrier generation block (559) and a data generation block (570). The demodulators are driven by a carrier generation block (559) and a data generation block (570). The output of the system is a modulated data signal around $f+15$ GHz (592). The diagram also shows frequency components f and $f+15$ GHz. Handwritten labels Sp14, Sp15, 551, 553, 557, 559, 563, 570, 571, 577, 581, 583, 587, 590, and 592 are present.



FIG. 17A







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FIG. 18A

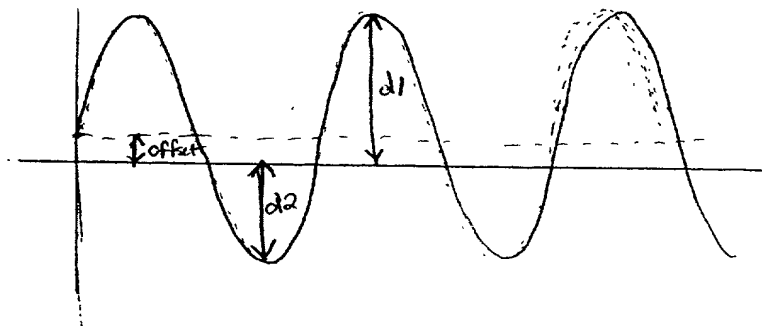
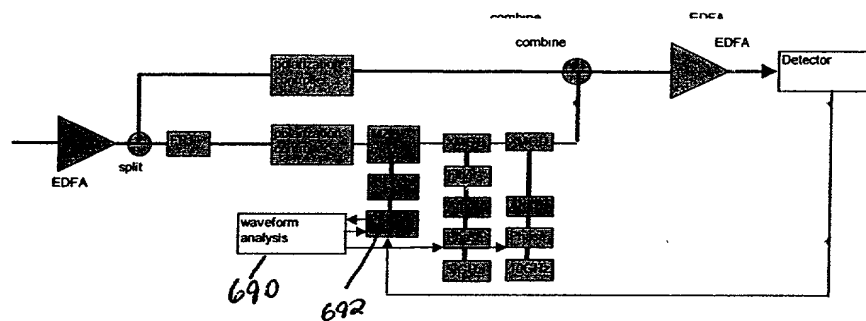


FIG. 18B



FIG. 19

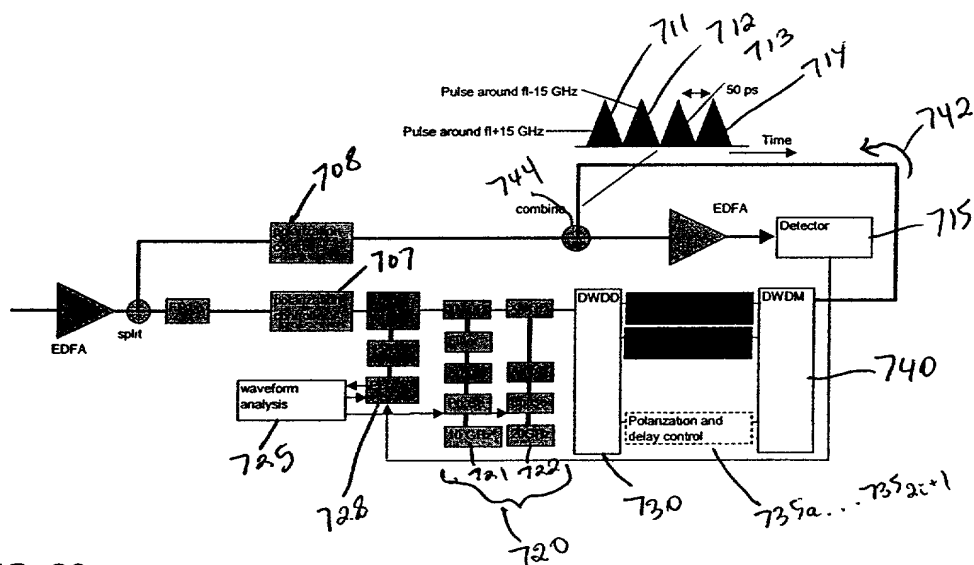
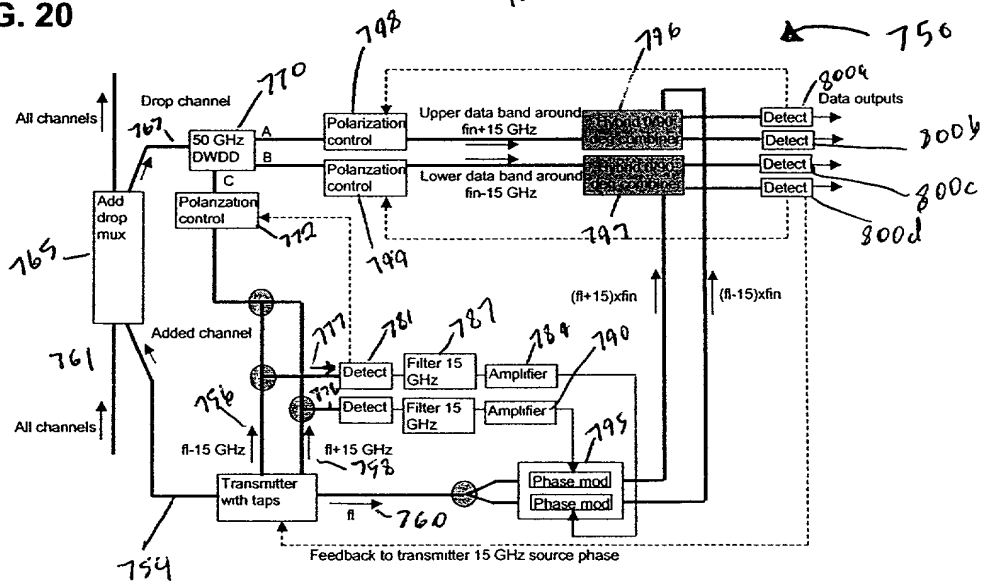
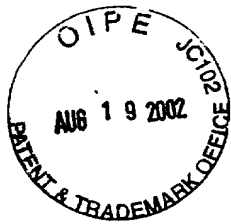


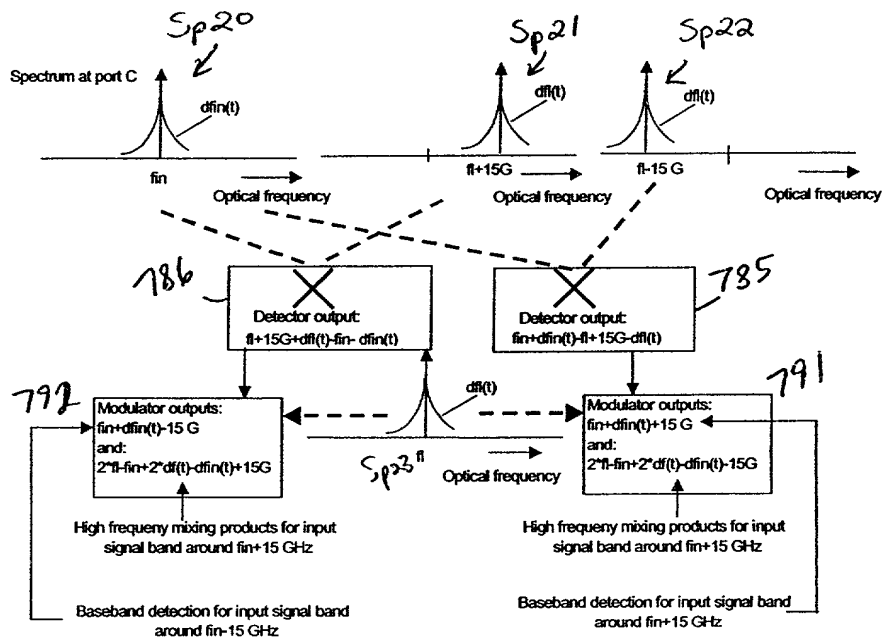
FIG. 20

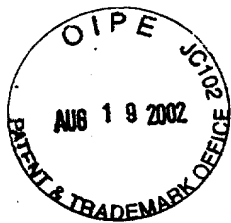




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FIG. 21





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FIG. 22

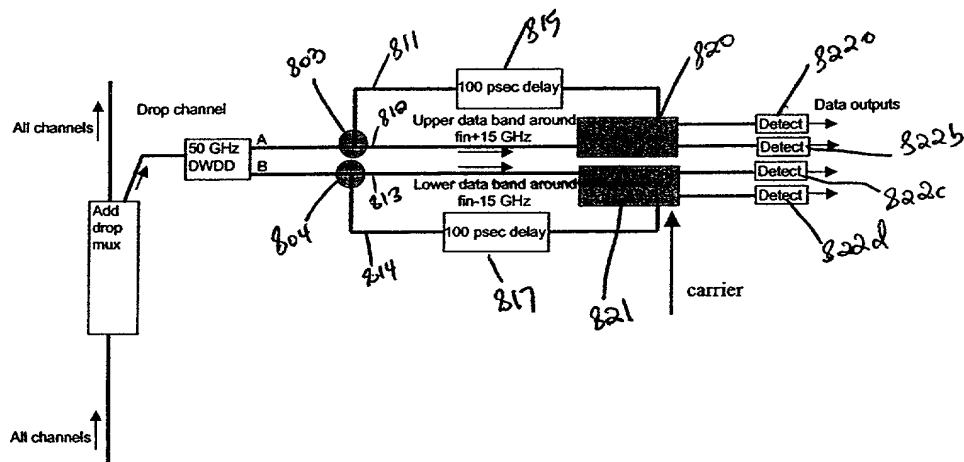


FIG. 23

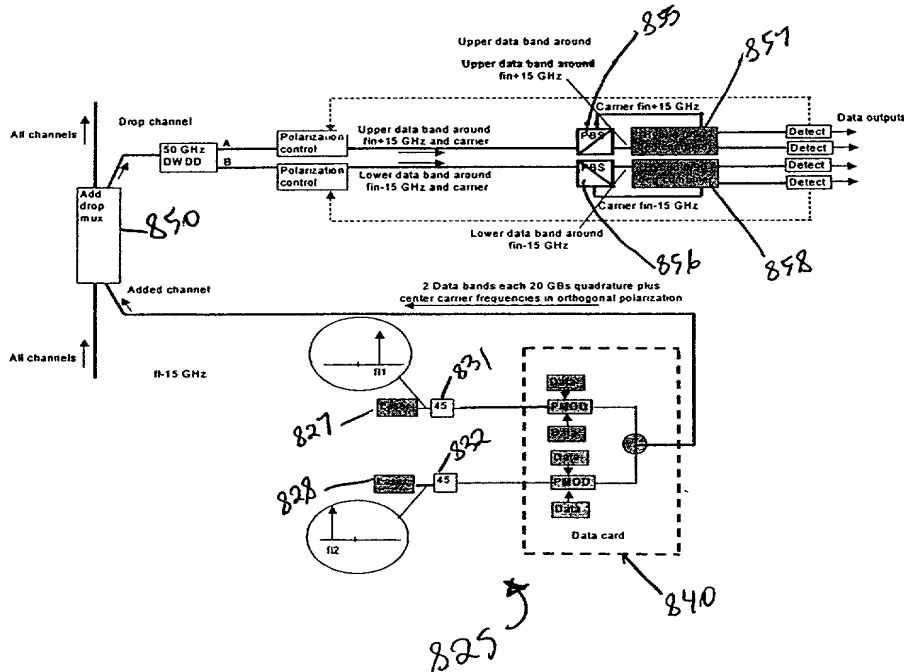
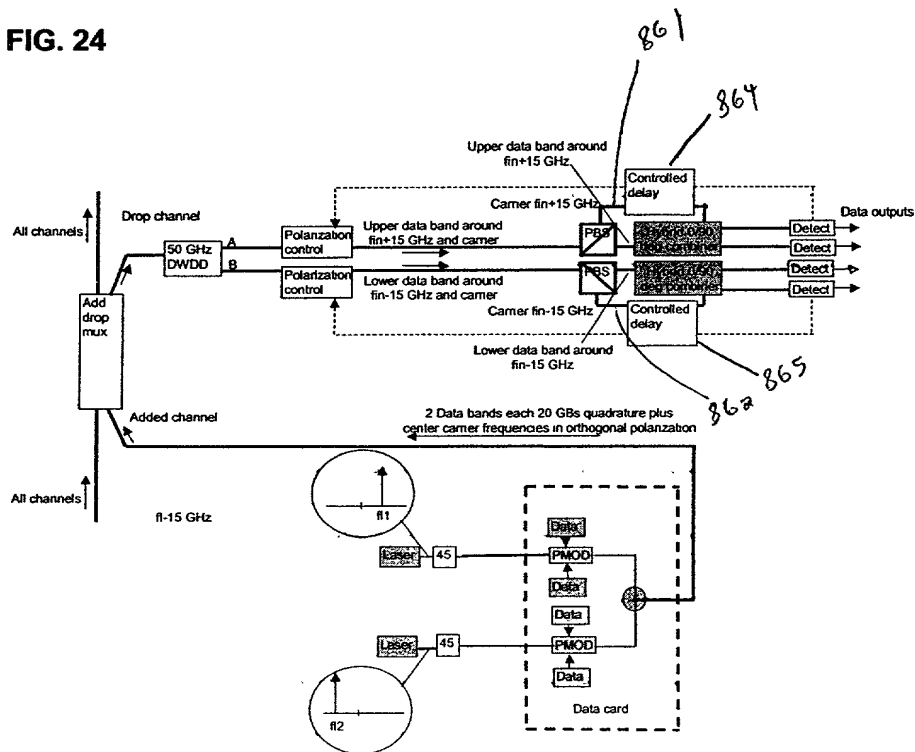




FIG. 24





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FIG. 26A

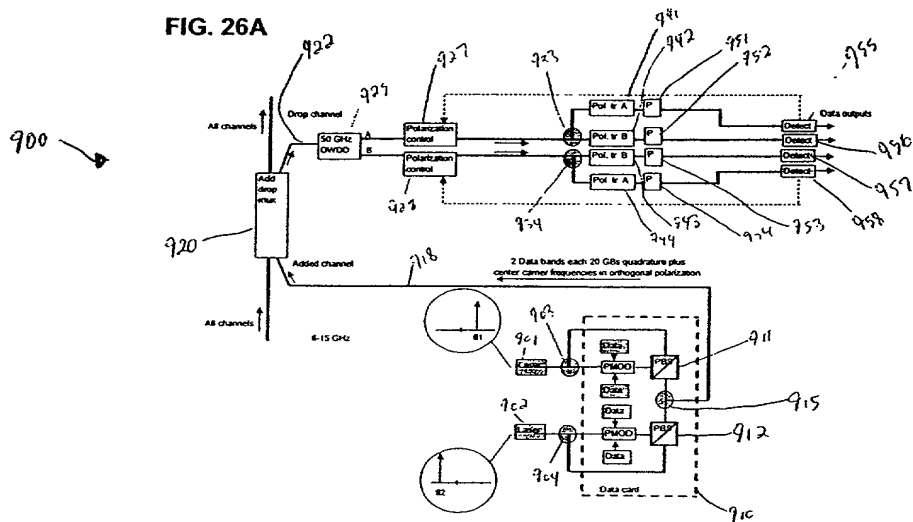
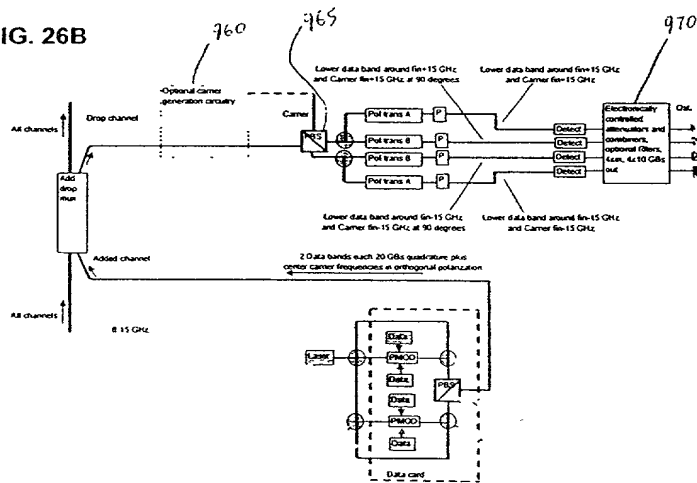


FIG. 26B





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FIG. 27

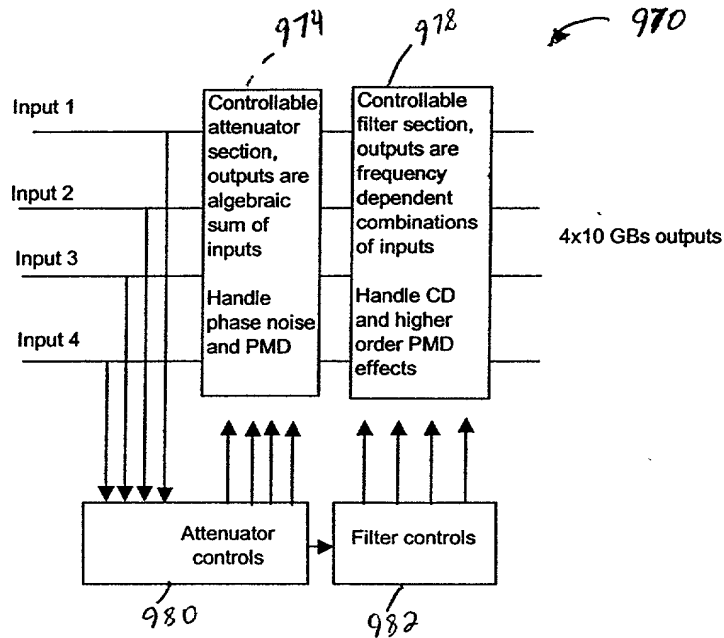
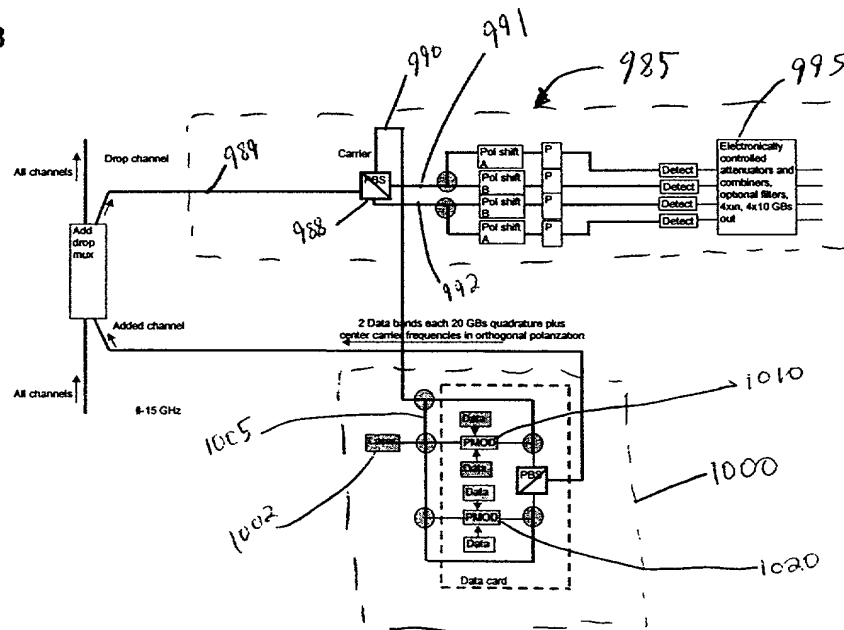


FIG. 28



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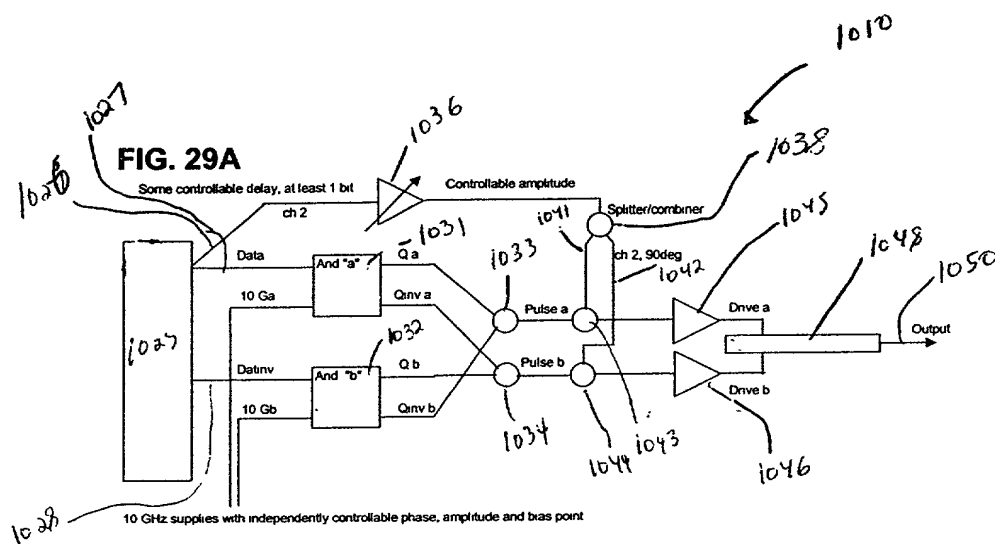
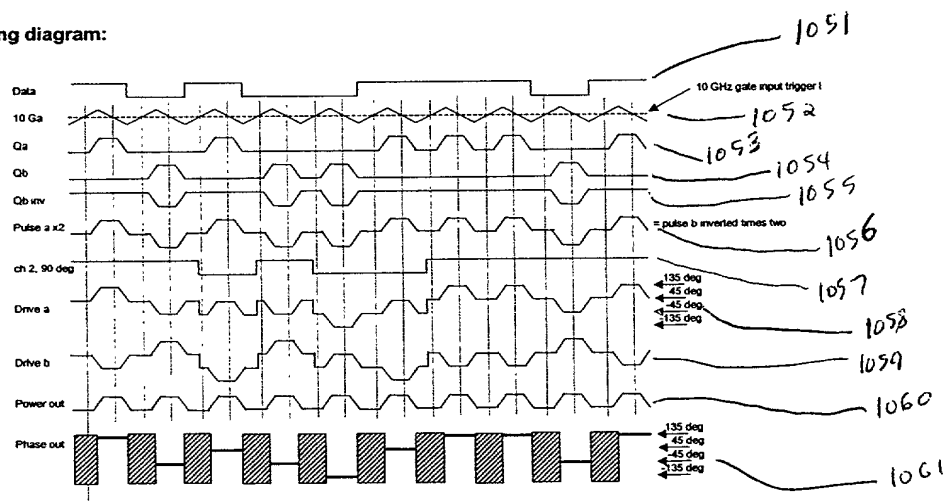


FIG. 29B

Timing diagram:





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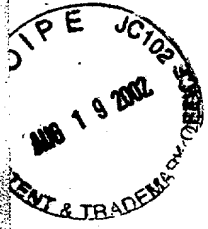


FIG. 30

1100

